

Structure of Phenolaldehyde Resins. XI. The Nature
of Resinous Condensation Products of Phenol With
Formaldehyde, by A. A. Vansheidt, A. T. Itenberg,
V. S. Shifrina, 7 pp. UNCLASSIFIED.

RUSSIAN, per, Zhur Obshch Khim, Vol XII, 1942,
pp 500-509.

CIA/TDD/X-1472

Scientific Chemistry

13,651

Comparative Hydrogenation of Octadecenoic
Acids, by Pigulevskii, P. A. Artamonov,
11p.
RUSSIAN, per, Zhurnal Obshchei Khimii,
Vol 12, No 9/10, 1942, pp 510-517.
ORR TT-65-60100

Sci
Aug 67

333, 847

Danilov, S. N.
DEVELOPMENT OF ORGANIC CHEMISTRY IN USSR
SINCE THE OCTOBER REVOLUTION. [1961] 23p.
206 refs.

Order from ODS or SIA \$1.10

CI-16649

Condensed trans. of Zhurnal Obshchei Khimii (USSR)
1942, v. 12, p. 533-577.

DESCRIPTORS: Chemical industry, USSR, *Organic
compounds, Hydrocarbons, Metalorganic compounds,
*Chemistry.

(Chemistry-Organic, TT, v. 6, no. 6)

CI-16649

I. Danilov, S. N.

176563

Office of Technical Services

NEKOLOVA, A. P. and Prost, A. V.
MECHANISM OF CONVERSION OF CYCLOHEXANE
TO HEXANES DURING HYDROGENATION OVER
MOLYBDENUM SULFIDE. [1961] 3p. 4 refs.
Order from ODS or SLA \$1.10

61-16650

Trans. of Zhurnal Obshchei Khimii (USSR) 1942, v. 12,
p. 111-113.

DESCRIPTORS: Cyclohexanes, Hydrogenation,
Molybdenum compounds, Sulfides, Hexanes, Chemical
reactions

Hydrogenation in the presence of molybdenum sulfide
converts cyclohexane into hexanes through the inter-
mediate stage of formation of methylcyclopentane.
(Aukhtov)

(Chemistry: Organic, TT, v. 6, no. 7)

61-16650

I. Nikolaeva, A. P.
II. Prost, A. V.

1517

Office of Technical Services

✓
A Contribution to the Problem of Vinyl Ethers, I.
Synthesis and Properties of Vinyl Ethers, by A. E.
Favorskiy, M. P. Shostakovskiy, 42 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol XIII, No 1/2,
1943, pp 1-20.

Sci Tr Center
R# - 3760

Sci - Chemistry

Aug 1956

37,174

SLA 61-81

1. Kite, A. P. and Tarasova, G. A.
MECHANISM OF CONTACT CONVERSIONS OF HY-
DROCARBONS BY A VANADIUM CATALYST.
I. CONTACT CONVERSIONS OF NORMAL HEPTANE
ON VANADIUM CATALYSTS. (Preprint)
[Russian] (Moscow: Khimicheskii Preprintnyi
Tsentr, 1961, No. 1, p. 1).

Order from G. P. of SGA 31.10

61-16982

Trans. of Zhurnal Khimicheskoi Khimii (USSR) 1943, v. 13,
[vol. 1,] p. 215.

DESCRIPTION: Hydrocarbons, Heptanes, Dehydro-
genation, Vanadium Catalysts, Monocyclic compounds.

Dehydrogenation of normal heptane on the vanadium
trichloride catalyst was investigated within the
temperature interval of from 400 to 500°. The veloc-
ity of the total reaction of dehydrogenation was indi-
cated by the amount of gas (hydrogen) liberated per 3
minutes, and it was established that the change of the
(Chemistry--Organic, TL v. 6, no. 7) (over)

61-16982

- I. Title: Contact conversion
- I. Kite, A. P.
- II. Tarasova, G. A.
- III. Title: Contact...

1943

Office of Technical Services

Plat, A. F. and Tarasova, G. A.
 METHOD OF CONTACT CONVERSIONS OF HYDROCARBONS ON A VANADIUM CATALYST.

II. KINETICS OF CYCLIZATION OF NORMAL
 HEPTANE (doklady Akad. Nauk SSSR, 1961, 174, 17-18).

Center from USSR SLA 41.10

61-16981

Trin, C. Zhurnal Khimicheskoi Fiziki (USSR) 1963, v. 33, no. 1, p. 31-33.

DEHYDROGENATION: Hydrocarbons, *Heptanes, Cyclohexane, Dehydrogenation, Vanadium catalysts, Heterocyclic compounds.

It was established that the total reaction of dehydrogenation of normal heptane on vanadium catalyst followed the Arrhenius equation and that the apparent energy of activation of this reaction is 41,100 cal per mole. (Chemistry--Organic, TT, v. 4, no. 7) (over)

61-16981

I. Plat, A. F.
 II. Tarasova, G. A.
 III. Title: Kinetics...

The Action of Aluminum Chloride on N-nitrazino-
pyridine in the Presence of Benzene, by D. N. Kur-
banov, E. A. Ignat'ova, 14pp.

Zhur Obshch Khim
RUSSIAN, no per, Vol. XIII, No 1-2, 1943, pp 62-67.

Sci Tr Ctr RT-3813

Sci - Chemistry
Aug 55 Cto/dept

37,541

Chemical System, VIII. Interaction of Chlorine
with Chlorine, by R. A. Poter, 12 pp.

Chemical System

Reaction, no par., Vol. VIII, No. 1-2, 1963, pp. 107-107.

Sci. Tr. Ch. 1963

Sci. - Chemistry
Aug 65 Ch. 1/2

37,552

Conjugated Systems. III. Bromination of
Chloroprene, by A. A. Petrov, 11 pp.

RUSSIAN, Per, Zhur. Obshch. Khim. Vol XXIII, No 1/2,
1943, pp 103-112.

Sci Tr Center
RT - 3860

Sci - Chemistry

Aug 1956

37,160

The Effect of the Diameter of Laboratory Columns
with Packed Bed on Their Efficiency and
Throughput, by E. A. Kazanskiy, et al. 12 pp
UNCLASSIFIED

RUSSIAN, per Zhur Oushch Khiz, Vol XIII, No 3,
1943, pp 125-130;

Sci Tr Center
RT-1010

Scientific - Chemistry

15,361

JOURNAL OF GENERAL CHEMISTRY, 1943,
VOL. 13, NO. 1 [TABLE OF CONTENTS] AND
SELECTED ABSTRACTS (1961) 13p. 10 refs.
Order from OTS or SLA \$1.60

61-20331

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1943, v. 13, no. 1, p. 131-158, 164-168, 175-188,
202-216, 230-241.

*Complete translations of p. 136-144, 184-188,
202-212 are available separately.

DESCRIPTORS: *Chemistry, Abstracting, Periodicals,
Alcohols, Silicic acids, Acids, Esters, Butadienes,
Synthesis, Urea derivatives, Ketones, Alkylation,
Chloroprenes, Iodine, Bromine, Chemical reactions,
Silbenes, Hydrolysis, Vanadium, Catalysts, Ethyl
radicals, Cyclohexanes, Pentanes.

(Chemistry, TT, v. 7, no. 1)

(over)

61-20331

- I. Title: Arylation...
- II. Title: Interaction of
Chloroprene...
- III. Title: Alkylation...
- IV. Title: Hydrolysis...
- V. Title: Contact...
- VI. Title: Interaction of 1, 2...
- VII. Title: Order...

Office of Technical Services

Intramolecular Rearrangements in the Aromatic Series.
III. Arylation and Alkylation of Aryl-Derivatives
of Urea, by G. I. Gerasimov, 17 pp.

RUSSIAN, per, Zhur Obshchei Khim, Vol .XIII, No 3,
1943, pp 136-144.

Sci Tr Center
RT - 3841

Sci - Chemistry

Aug 1956

37,175

The Making of Successful Double Bonds. The
 Synthesis of Cyclic Polyenes and Derivatives Under the
 Action of Certain Reagents Capable of Addition to
 Conjugated Double Bonds, by D. N. Hunderer, A. S.
 Kuznetsov, 9 pp.

RECEIVED, no per, Amer Chem Soc, Vol XLII, No 3,
 1943, pp 112-113.

Box 112 Center
 RM-3052

39,140

Box - Chemistry
 Top 30 cm, 100

Alkylation with Olefines in the Presence of
Aluminum Chloride. Communication I, by S. I. Lurie
A. Ya. Golovneva, 12 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII, No 3,
1943, 189-194.

Boi Tr Ctr RT-3853

SLA 61114

37,543

Sci - Chemistry
Aug 56 CTS/dac

Acylation With Oxalines in the Presence of
Aluminum Chloride, Communication II., 15 pp.
by S. I. Kur's, A. Ya. Golovacheva

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 3, 1963, pp 195-201.

Sci Tr Center
BT-3851

Sci - Chemistry

Aug 1956

37, 882

SL 1111

The Mechanism of Contact Transformations of
Hydrocarbons on a Vanadium Catalyst. III.
The Contact Transformations of Ethyl-Cyclo-
Pentane, by A. F. Plate, O. D. Sterligov, 24 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XIII,
No 3, 1943, pp 202-212.

Sci Tr Center
RT-3858

Sci - Chemistry

37,883

Aug 1958

314

John White Chem

Vol 13, pp 253-66 (1943)

New Complex Compounds of Phenol

V. V. Schudinski
D. N. Dvornikov - Moscow

HEC 20 # 294

Prokhorov

Solubility of Lithium Bromate and of its hydrates,
Communication II, by I. N. Averko-Antonovich,
7 pp.
RUSSIAN, per, Zhur Obshch Khim, Vol XIII, 1943,
pp 272-273, 9230303.
REC BNL-2-45

292,9207

Sci-Chem
REV 65

Polymerization of Isobutylene Over Hydrosilicic
Catalysts. Communication III., by B. A. Kazanskiy,
M. I. Romengart, 9pp.

RUSSIAN, no per, Zhur Obshch. Khim., Vol XIII,
No 4-5, 1945, pp 304-308.

Sci Tr Ctr- RT-3808

Sci-Chemistry
Aug 95 CTR/dex

37,537

A New Method of Separating Lupinine From Crude
Anabasine Sulphate, by A. Sadykov, G.
Lazurevskii

RUSSIAN, per, Zhur Obshch Khim, Vol XIII, 1943,
pp 319-321.

AEC Tr 1153

Scientific - Chemistry

Turova-Polysk, M. B. and Rappoport, P. L.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS UNDER THE ACTION OF ALUMINUM
CHLORIDE. XI. ISOMERIZATION OF METHYL-
CYCLOHEPTANE. [1961] 52: 11 refn.
Order from OIS or SLA 51.10

61-16660

Tram. of Zhurnal Obshchei Khimii (USSR) 1943,
v. 13, p. 353-357.

DESCRIPTORS: Hydrocarbons, *Cycloheptanes,
*Molecular isomerism, Aluminum compounds,
(Chemistry)

Reaction of methylcycloheptane with aluminum chlo-
ride, accompanied by liberation of heat, results in com-
plete conversion of methylcycloheptane into dimethyl-
cycloheptane. Under the conditions of catalytic dehydro-
genation methylcycloheptane undergoes an isomeri-

(Chem. Abstr., 1961, 52: 11, 10L 7)

(over)

61-16660

- I. Turova-Polysk, M. B.
- II. Rappoport, P. L.
- III. Title: Isomerization of
Methylcycloheptane

15711

Office of Technical Services

Polarographic Determination of Copper, Nickel,
Cobalt, Zinc and Cadmium When Simultaneously
Present, by D. P. Malyuga.

RUSSIAN, as per, Zhur Obshch Khim, Vol XIII,
No 6, 1943, pp 391-397.

Assoc Tech Sv RJ-259
\$12.00

Scientific - Chemistry;
CIS 73/04: 1955

27,695
h/m.

Shostakovskii, M. P. and Sidel'kovskaya, F. P.
 STUDIES IN THE FIELD OF THE POLYMERIZATION
 OF SIMPLE VINYL ETHERS: VINYL-ISOBUTYL
 ETHER (Issledovaniya v Oblasti Polimerizatsii
 Prostykh Vinilovykh Eterov: Vinil-izobutilovyi Eter).
 [1963] [20p] (foreign text included) 7 refs
 Order from OTS or SLA \$1.60

63-20181

Trans. of Zhurnal Obshchei Khimii (USSR) 1943,
 v. 13, no. 6, p. 428-435
 Abstract trans. is available from OTS or SLA \$1.10
 as 62-16830 [1962] 4p.

DESCRIPTORS: *Vinyl radicals, *Butyl radicals,
 Propyl radicals, *Ethers, Polymerization, *Catalysts,
 *Tin compounds, Chlorides, Density, Refractive
 Index, Viscosity, Saponification, *Polyvinyl alcohol.

(Chemistry--Organic, TT, v. 10, no. 12)

63-20181

- I. Title: Vinyl isobutyl ether
- I. Shostakovskii, M. P.
- II. Sidel'kovskaya, F. P.
- III. Title: Vinyl-isobutyl...

Office of Technical Services

Investigation in the Ketone Series. II.
Condensation of Monoketones with Cyanoacetic
Acid, by D. H. Trakhtenberg, M. M. Sherkhin,
7 pp.

RUSSIAN, no par, Khim. Obshch. Khim., Vol XIII, No
6, 1949, pp 477-480.

Sci. Tr. Center
RT-3834

0

37,885

Sci. - Chemistry

Aug 1950

Mauliyanski, G. N.
KINETICS OF ISOMERIZATION OF CYCLOHEXANE
UNDER ELEVATED PRESSURES. [1961] 11p. 28 refs.
Order from ODS or SLA 51.10 61-16913

Trans. of Zhurnal Khimicheskoi Fiziki (USSR) 1943, v. 13,
p. 540-551.

DESCRIPTORS: Cyclohexane, Reaction kinetics,
Chemistry.

The catalytic isomerization of cyclohexane over molybdenum pentoxide at 100-150°C and hydrogen pressure was investigated and the kinetic regularities of this reaction established. The isomerization velocity depends upon the partial pressure of cyclohexane, but is independent of the partial pressure of hydrogen. The order of reaction of isomerization of cyclohexane over molybdenum pentoxide is 1.5-2.0. The apparent energy of activation of cyclohexane at 170-180°C is 35,400 ± 1,000 calories. Accordingly the temperature coefficient on (Chemistry--Physical, TT, v. 6, p. 1) (over)

61-16913

I. Mauliyanski, G. N.

Office of Technical Services

61-6897

POKROVSKAYA, E. S.
SYNTHESIS OF POLYCYCLIC HYDROCARBONS. I.
HYDROCARBONS OF THE SERIES OF 1-METHYL-
CYCLOPENTYLIDENE-PHTHALENE. [1961] 4p. 9 refs.
Order (and OTS) SLA \$1.10 61-16897

Chem. papers of Zhurnal Obshchestva Khimikov (USSR)
1961, 1:13, p. 571-575.

REMARKS: *Polycyclic carbon, *Polycyclic compound,
*Biphenyls, Synthesis.

By condensation of 1-methylnaphthalene with cyclopentadiene in the presence of aluminum chloride, 1-methylnaphthalene, 1-methylidene-1-cyclopentylidene-naphthalene, 1-methylidene-1-cyclopentylidene-naphthalene, 1-methylidene-1-cyclopentylidene-naphthalene were obtained. The melting points of these hydrocarbons were 110-115°C, 110-115°C, 110-115°C, and 110-115°C, respectively. The boiling points of these hydrocarbons were 110-115°C, 110-115°C, 110-115°C, and 110-115°C, respectively. The specific gravity of these hydrocarbons are some (Chemistry-Organic, TT, v. 6, no. 7) (over)

I. Pokrovskaya, E. S.
II. Title: Hydrocarbon ...

15177

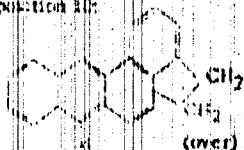
Office of Technical Services

Maklanov, B. M., and Blokhina, A. N.
 CYCLOPENTADIENES. POLYCYCLIC COMPOUNDS. VIII.
 POLYCYCLIC DERIVATIVES OF 1,3-DIALLYL-1,2-BENZ-
 ANTHRAcene. 109 (1961) 13 (61).
 Order from GTS or SLA \$3.10 61-16896

Guidelines for the 22nd Annual Meeting (USSR)
 1961, v. 11, p. 608-615.

DESCRIPTORS: Polycyclic compounds, Benzenes,
 Anthracenes, Synthesis, Alkyl radicals.

Synthesis of 1,3-bis(1,2-dichloroethoxy)benzenes is re-
 ported, containing 4-methyl, ethyl, n-propyl or
 isobutyl radicals in position 4:



61-16896

I. Maklanov, B. M.
 II. Blokhina, A. N.
 III. Title in Cyrillic

Office of Technical Services
 (Chemistry - Organic)
 TT-100, (c. 7)

Getling, V. A. and Shchekin, V. V.
PREPARATION OF SOME HIGH MOLECULAR HY-
DROCARBONS. [1961] 4p. 16 refs.
Order from DTIC or SIA \$1.10

61-16899

Condensed trans. of Zhurnal Obshchei Khimii (USSR)
1943, v. 13, p. 717-721.

DESCRIPTION: *Hydrocarbons, Synthesis, Catalysts,
Hydrogenation, Molecular weight, Alcohols, Benzenes,
Cyclohexanes.

Synthesis of normal octadecane in mixture with normal
octadecyl alcohol is reported by hydrogenation of sun-
flower oil fatty acids over a copper-chromium cata-
lyst. From normal octadecyl alcohol and benzene,
normal octadecylbenzene was obtained, and this was
hydrogenated quantitatively to normal octadecylcyclo-
hexane. (Author)

(Chemistry--Organic, TT, v. 6, no. 8)

61-16899

I. Getling, V. A.
II. Shchekin, V. V.

15120

Office of Technical Services

Nikolaeva, A. P. and Frost, A. V.
CATALYTIC ACTION OF ACTIVE ALUMINO-SILI-
CATES. III. CONVERSION OF HEXENE OVER ACTI-
VATED CLAY. [1961] 3p. 3 refs.
Order from OTS or SLA \$1.10

61-16898

Trans. of Zhurnal Obshchei Khimii (USSR) 1943, v. 13,
p. 733-739.

DESCRIPTORS: *Cyclohexenes, Catalysts, Clays.
Aluminum compounds, *Silicates, Catalysts.

61-16898

I. Nikolaeva, A. P.
II. Frost, A. V.
III. Title: Conversion...

Office of Technical Services

(Chemistry--Organic, TT, v. 6, no. 7)

Ya. A. Fialkov

Electric conductivity of iodine solutions. 3: Electric
conductivity of the system: $I-Me_4NI$

ZH. ODSHCN. KHIM. Vol 13, 1943, pp 753-761

NASA TT F 13,911

MACR 73

The Separation of Anabasine and Luinine from an
Alkaloid Mixture Using a Liquid Ammonia Mixture, y
by A. Sadykov, dn and N. Spasokutotskii.

Full translation.

RUSSIAN, per Zhur Obshch Khim, Vol XIII, USSR, 1943,
pp 830-833.

Scientific - Chemistry

AEC Tr 1264

Differential Thermocouple Method in Heterogeneous
Catalysis, by A. A. Balandin, V. V. Patrikeyev,
10 pp.

RUSSIAN, no par, Zhur Obshch Khim, Vol XIV, No 1/2
1944, pp 57-69.

Sci Tr Center
R# -2656

Scientific - Chemistry
Dec 55 CUB/DEX

28,188

1
Electrochemical Thiocyanation of Organic Compounds.
Cont. III. Thiocyanation of p-Substituted Aromatic XE
Alkyls, by N. N. Mel'nikov, E. M. Cherkasova,
6 pp. UNCLASSIFIED

RUSSIAN, Izv. Zhur Obshchei Khim, Vol XIV, No 1-2,
1944, pp 113-115.

Sci Tr Center
RT-1009

Scientific - Chemistry

15,356

Nazario, Z. N. and Tsekouras, I. P.
 REACTION OF AROMATIC COMPOUNDS WITH
 ALCOHOL IN THE PRESENCE OF ANHYDROUS
 FERRIC CHLORIDE. [1961] 41, 1415.
 Collection 075 of S.S. 11.10

61-16846

I. Nazario, Z. N.
 H. Tsekouras, I. P.

61-16846

Trans. of Chemical Society, London (1944),
 7, 1111, 1112, 1113, 1114.

DESCRIPTION: "Alcohols, "Iron compounds, "Chloro-
 rides, "Reactions, Condensation reactions, Alkyl
 radicals, "Reaction kinetics, Phenols, Benzenes

Attempts to condense natural primary aliphatic alco-
 hols with benzene and phenol in the presence of an-
 hydrous ferric chloride were unsuccessful. Experi-
 ments of condensation of benzyl alcohol with benzene
 and phenol gave diphenylmethane and benzylphenol.
 (Chemistry - Organic, "I, v. 7, no. 5) (over)

Chemical Abstracts

Synthesis of Chlorostyrenes, by S. N. Ushakov,
P. A. Matusov, 13 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol. XIV,
No 1/2, 1944, pp 120-127.

Sci Tr Center
RI-3833

Sci - Chemistry

Aug 1956

37,888

Manlyanskii, G. N.
DESTRUCTIVE HYDROGENATION OF BENZENE
[1951] 10p. 24 refs.
(Order from SLA or SLA 51-10)

61-18193

Treat. of Benzene. Khim. (USSR) 1944, v. 14,
p. 42 (16)

DESCRIPTORS: Benzene, Hydrogenation, Hydro-
carbons, Catalysts, Molybdenum compounds, Catalysts

Method an in the catalyst suitable for destructive hy-
drogenation in the vapor phase, developed at the
Laboratory, were previously found to be very
effective in the cracking of hydrocarbons. In order to in-
vestigate the nature of the chemical reactions occurring
in the catalytic cracking of benzene was studied
in the work and the products obtained investigated, con-
sidering also the results reported by some other
authors. Among these products, methylcyclopentane
(34%), normal pentane (1.5%), 2-methylbutane (1.5%),
(Chemistry-Organic, 17, v. 6, no. 7) (over)

61-18193

I. Manlyanskii, G. N.

1797

Office of Technical Services

Nazirova, Z. N. and Tsukervanik, L. P.
MECHANISM OF REACTIONS OF ALKYLATION UN-
DER THE INFLUENCE OF ANHYDROUS FERRIC
CHLORIDE [1961] 10p, 15 refs.
Order from OTC or SLA \$1.10

61-18168

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 236-244.

DESCRIPTORS: Iron compounds, Chlorides, Catal-
ysis, Alcohols, Condensation reactions, Ethyl radi-
cals, Reaction kinetics, Bromides, Alkyl radicals.

It was established that no condensation of ethyl bro-
mide, normal butyl chloride and isomyl chloride with
aromatic hydrocarbons occurs in the presence of fer-
ric chloride. In this respect the difference between
aluminum chloride and ferric chloride is especially
pronounced. A study of interaction of alcohols with
(Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18168

I. Nazirova, Z. N.
II. Tsukervanik, L. P.

005425

Office of Technical Services

Turova-Polyak, M. B. and Novitskii, K. Yu.
ISOMERIZATION OF POLYMETHYLENE HYDRO-
CARBONS [UNDER THE ACTION] OF ALUMINUM
CHLORIDE. OR ISOMERIZATION OF CYCLO-
OCTANE. [1961] 6p. 9 refs.
Order from OTH or SLA SL 10

61-18163

Trans. of Zhurnal Obshchei Khimii (USSR) 1946, v. 14,
p. 337-342.

DISCUSSION: *Hydrocarbons, *Molecular isomerism.
*Cyclooctane, Cyclohexane, Aluminum compounds,
Chlorides.

Isomerization of cyclooctane in the presence of alumi-
num chloride was investigated. Interaction of cyclo-
octane with aluminum chloride, attended by liberation
of heat, was found to bring about complete conversion
of cyclooctane into dimethylcyclohexane. Thus, isom-
erization of an eight-membered naphthalene ring into a
six-membered ring was established. (Author) (See
also 61-10660)

61-18163

- I. Turova-Polyak, M. B.
- II. Novitskii, K. Yu.
- III. Title: Isomerization of
Cyclooctane

Office of Technical Services

(Chemistry--Organic, TT,
v. 6, no. 7)

61-18161

McDonnell, E. and Zharkova, V.
ISOMERIZATION OF HYDROCARBONS. VII. ANALY-
SIS OF MIXTURES OF ISOMERIC PENTENES. [1961]
5p. 7 refs.

Order from OTC or SLA \$1.10

61-18161

I. Moldavskii, E.
II. Zharkova, V.
III. Title: Analysis ...

Trans. of Zhurnal Obshchei Khimii (USSR) 1964, v. 34,
p. 59-604

ZHARKOVA, V. "Hydrocarbons. Molecular Isomerism.
Processes. Determination."

A method of analysis of mixtures of homeric pentenes
was developed, consisting in distilling off 3-methyl-
pentenes and determining in the residue the total amount
of unsaturated and that of unsaturated with a double
bond at a tertiary carbon atom. This method is suitable
also to the determination of other olefins, for instance
those containing 4, 6 or 7 carbon atoms and possessing
a double bond at a tertiary carbon atom. The analytical
(Chemistry--Organic, Tt. v. 6, no. 7) (over)

Office of Technical Services

Thermal Analysis of the System $\text{NaF}-\text{BeF}_2$. X-Ray
Analysis of This System, by A. V. Novoselova, M. E.
Levina, 30 pp.

RUSSIAN, per, Zhur Osnovch Khim, Vol XIV, No 6,
1964, pp 385-402.

28, 9/10

Sci Tr Center
RT-2187

Scientific - Chemistry

Nov 55 CTS/DEK

Gas-Permeability and Microstructure of
Hypersymmetric Compounds, by S. A. Reitlinger,
6 p.

RUSSIAN, par, Partial Trans, (p 120-123) of
Zhurnal Obshchey Khimii, 1944, Vol XIV, No 1
pp 120-123.

SLA 62-16848
SLA 59-15348

Sci
Jan 60
Vol 2, No 5

Zavgorodnii, S. V.
 BORON FLUORIDE AS A CATALYST IN ORGANIC
 CHEMISTRY. III. VELOCITY OF CONDENSATION
 OF CYCLOHEXENE WITH CARBOXYLIC ACIDS IN
 THE PRESENCE OF BORON FLUORIDE IN SOL-
 VENTS. [1961] 3, 11 444.
 Order from OTS at SLA \$1.10

62-10849

[Condensed transl. of Zhurnal Obshchei Khimii (USSR)
 1944, v. 14, no. 6, p. 428-434.]

DISCRIPTORS: *Boron compounds, *Fluorides,
 Catalysts, *Cyclohexenes, *Carboxylic acids, Con-
 densation, Velocity, Organic solvents.

(Chemistry--Organic, TT, v. 7, no. 11)

62-10849

I. Zavgorodnii, S. V.
 II. Title: Velocity...

Office of Technical Services

Korshak, V. V. and Molesnikov, G. S.
MECHANISM OF THE FRIEDEL-CRAFTS RE-
ACTION, L. [1961] 8 p. 8 refs.
Order from OTS or SLA \$11.10

62-10850

[Condensed]; ann. of Zhurnal Obshchei Khimii (USSR)
1944, v. 14, no. 6, p. 438-437.

DESCRIPTORS: *Friedel-Crafts reactions, Chemical
reactions, Benzenes, Ketones.

(Chemistry--Organic, 7T, v. 7, no. 11)

62-10850

I. Korshak, V. V.
II. Molesnikov, G. S.

Office of Technical Services

Petrov, A. D. and Kurbakii, G. P.
SYNTHESIS AND PROPERTIES OF MONOALKYL
NAPHTHALENES C₁₇H₁₄ AND SOME HYDROGE-
NATED DERIVATIVES (in RUSSIAN) [1961] 3p. 8 refs.
Order from OIT or SLA \$1.10 61-18204

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
p. 492-494.

DESCRIPTORS: Naphthalenes, Synthesis, Antiknock,
Alkyl radicals, Hydrocarbons.

Synthesis of four alkylated naphthalenes with from 17
to 21 carbon atoms is reported; two of these were
hydrogenated to the corresponding decalin derivatives.
Four points and antiknock properties of these hydro-
carbons expressed in cetane numbers were determined.
(Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18204

E. Petrov, A. D.
G. Kurbakii, G. P.

Office of Technical Services

Petrov, A. D. and Lapcheva, E. I.
SYNTHESIS AND PROPERTIES OF SOME HIGHER
HOMOLOGS OF BENZENE, III. [1961] 3p. 12 refs.
Order from OIS or SLA \$1.10 61-18203

Trav. et Zhurnal. Odesk. Khim. (USSR) 1964, v. 11,
p. 493-497.

DESCRIPTORS: Benzenes, Synthesis, Chemical
properties.

Properties of newly synthesized propylphenyl-
acetylene and diphenylphenylmethane were studied
and boiling curve numbers of methylphenyl-
acetylene were determined. (Author)

(Chemistry--Organic. TT, v. 6, no. 7)

61-18203

I. Petrov, A. D.
II. Lapcheva, E. I.

18180

Office of Technical Services

Petrov, A. D., Shchupina, Z. K., and Ol'dekop, Yu. A.
 SYNTHESIS OF 9,10-DIMETHYLOCTADECANE AND
 9,10-DIPROPYLOCTADECANE. [1961] 3p. 13 refs.
 Order from OTS or SLA \$1.10 61-18202

Trans. of Zhurnal Obshchei Khimii (USSR) 1944,
 v. 14, p. 498-500.

DESCRIPTORS Synthesis, *Propanes, Hydrocarbons,
 *Fuel oil, Methyl radicals, Alkyl radicals, Propyl
 radicals, *Methanes, Viscosity, Antiknock.

Synthesis of two isoparaffins with 20 and 24 carbon
 atoms, respectively, was effected, namely, 9,10-
 dimethyloctadecane and 9,10-dipropyloctadecane.
 These hydrocarbons are characterized by low pour
 points, satisfactory antiknock properties and a flat
 temperature-viscosity curve. (Author)

(Chemistry--Organic, TT. v. 6, no. 8)

61-18202

I. Petrov, A. D.
 II. Shchupina, Z. K.
 III. Ol'dekop, Yu. A.

100126

Office of Technical Services

The Study of the Reaction of Sulfonation II. The
Influence of Time and Excess of Sulfonated
Substance Upon the Process of the Reaction, by
A. A. Spryagin, 15 p.

RUSSIAN, year, Zhur. Khim, 1944, Vol XII,
No 7/8, pp 833-841.

SLA 59-17827

Sci
Pub 60
Vol 2, No 10

108,837

61-23813

Kuznetsov, V. I.
 REACTION COLORES SUR LE THORIUM
 I. REACTIFS ORGANIQUES POUR LE THORIUM
 (Color Reaction of Thorium. I. Organic Reagent for
 Thorium) tr. by M. Kuznetsov, Y. 9 May 60 [13]p. 9 refs.
 CEA Trans. no. R 897 (sent in French).
 Order from OTS or SLA \$1.60

61-23813

Trans. in French of Zhurnal Obshch[est] Khim[ii]
 (USSR) 1960, v. 14, no. 9/10, p. 914-919.
 A translation in English available from SLA as
 AT-2824.

DESCRIPTORS: Thorium, Reagents, Colors,
 Chemical reactions, USSR.

See also: [illegible] 50112

See also: [illegible] 50112

See also: [illegible] 50112

(Chemistry--Organic, TT, v. 6, no. 6)

- I. Kuznetsov, V. I.
- II. Title: Reactifs...
- III. Title: Organic...
- IV. CEA-tr-897
- V. Commissariat à l'Energie
 Atomique (France)

176694

Office of Technical Services

Plat, A. F., Sterligov, O. D., and Bazhulin, P. A.
HYDROCARBONS OF THE SERIES OF CYCLOPENT-
ANE WITH A DOUBLE BOND IN THE SIDE CHAIN
4-CYCLOPENTYL-1-BUTENE AND 3-CYCLOPENTYL-
1-BUTENE. [1961] 6p, 16 refs.
Order from OTS for \$1.50

61-18214

Trans. of Zhurnal Obshchei Khimii (USSR) 1966, v. 36,
p. 633-634

DESCRIPTORS: Hydrocarbons; Cyclopentanes;
Alkenes; Synthesis; Raman spectroscopy.

Interaction of cyclopentylmagnesium chloride with the
product of addition of 1 molecule of hydrogen bromide
to 1,2-dibromocyclopentane of unsaturated hydrocar-
bons from which 4-cyclopentyl-1-butene was isolated
in pure state and 3-cyclopentyl-1-butene as a mixture
of its cis and trans isomers. The structure of these
olefins was proved by a study of their Raman spectra.
(Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-18214

I. Plat, A. F.
II. Sterligov, O. D.
III. Bazhulin, P. A.

Office of Technical Services

The Chemistry of Phosphorous, by Y. I. Mikhailenko.
V. I. Semishin, 6 p.

RUSSIAN, per, Zhur Obshchei Khim, Vol XIV, 1944,
pp 1025-1029.

SIA R-3028

Sci

Jul 59

92, 354

Action of Haloid-Substituted Ethers on Triethyl
Phosphite and Salts of Diethyl-Phosphorous Acid,
by Abramov, Sergeyevna, Zh. Chelpanova 12 01 11/87

Full translation.

RUSSIAN, per, Zhur Obsach Khim, Vol XIV, No 11-12,
1944, pp 1030-1037.

DLA RT-2071 (1/4, 1/1)

Def Sci Info Sv, DRB Canada,
T.92.R

075 62-20273 (12 p)

Scientific - Chemistry Jul 53 CTS/DEX

CIA 160595

9/14/77

61-23119

Ushakov, M. I. and Koshelova, N. F.
PHOTO-POLYMERIZATION OF $\Delta^4,6$ -CHOLESTADIEN-3-ONE
DIENOL. Tr. By Z. D. G. 27 Oct 51, 10p.

4 refs.

Order from OTS or SLA 51.10

61-2819

Trans. of Zhurnal Obshchei Khimii (USSR) 1944, v. 14,
no. 11, 12, p. 1133-1134.

DESCRIPURS: Cholesterone, Polymerization, Ultra-
violet radiation, Hydrogenation, Hexanes, Cholesterol,
Photo-chemistry, Chemistry.

At exposure to ultraviolet light of a solution of
 $\Delta^4,6$ -cholestadien-3-one in hexanes a dimer-cholesterone
diene is obtained which at heating dissociates,
yielding inversely $\Delta^4,6$ -cholestadien-3-one. At catalytic
hydrogenation with osmium tetroxide-cholesterone
($C_{27}H_{44}O$) at the splitting off of water converts into
(Chemistry--Organic, Tr. v. 7, no. 5) (over)

I. Ushakov, M. I.
II. Koshelova, N. F.
III. National Institutes of
Health, Bethesda, Md.

Office of Technical Services

6.-18249

Vvedenskii, A. A. and Fel'dman, L. F.
THERMODYNAMICS OF SYNTHESIS OF ETHYL
ALCOHOL FROM ETHYLENE AND WATER. [1961]5p.
19 refs.

Order from O/S or SLA \$1.10

61-18249

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15
[no. 1/2] p. 27-31.

DESCRIPTORS: *Ethanol, Synthesis, Thermodynamics,
Ethylene, Water, Chemical reactions, Chemical equi-
librium.

The concentration of ethyl alcohol in the equilibrium
gaseous mixture was calculated at temperatures of
from 150 to 400° and pressures from 50 to 200 atm.
(Author)

(Chemistry--Organic, TT, Y, 6, no. 10)

I. Vvedenskii, A. A.
II. Fel'dman, L. F.

.240

Office of Technical Services

The Study of the Amination of Organic Halogen
Compounds in Liquid Ammonia, 2. The Reaction
Between Liquid Ammonia and Lower Alkyl Halides,
by M. S. Spasokukotskiy, G. S. Markova,
A. I. Shatenshtein, 29 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV,
No 1/2, 1945, pp 42-57.

Sci Mu Lib No 54/2913

Scientific - Chemistry

Natl Archivist 443

Nov 1954 CTS

19,697

Complete Rearrangement of the Second Type, by
K. K. Givkov, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, No 1-2,
1945, pp 70-74.

Sci Tr Center
RT-1413

Scientific - Chemistry

18,880

Part IX
Determination of Active Hydrogen With Grignard's
Reagent in an Atmosphere of Carbon Dioxide, by
A. P. Tarant'ev, K. D. Shcharbakova.

Full translation.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, 1945,
pp 88-89.

AEC Tr 1574

Scientific - Chemistry

May 53 C.S.

2101
2101

61-18251

Plate, A. F. and Tarasov, G. A.
MECHANISM OF CONTACT CONVERSIONS OF HY-
DROCARBONS ON A VANADIUM CATALYST. IV.
DEHYDROGENATION OF SIX-MEMBERED RINGS.
[1961] pp. 12 ref.

Order from OTS or SLA 51.10

61-18251

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 120-122.

DESCRIPTORS: *Hydrocarbons *Cyclohexanes,
Methyl radicals, Dehydrogenation, *Vanadium, Cata-
lysts, Catalysis

Dehydrogenation of cyclohexane and of methylcyclohex-
ane was investigated on a vanadium catalyst within the
temperature interval of 440 to 500°. The principal re-
action consists in this case in the formation of aro-
matics and the corresponding cycloolefins. Simultane-
(Chemistry--Organic, TT, v. 6, no. 10) (over)

I. Plate, A. F.
II. Tarasov, G. A.
III. Title: Dehydrogenation ...

Office of Technical Services

Specific Weight of Aqueous Solutions of Formic and
Acetic Acids, by A. A. Galgoleva, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV, 1945,
pp 131-134.

ABC Tr 3756

Sci - Chem

Sep 59

96,731

Shilov, E. A.
 CATALYTIC INFLAMMATION OF MIXTURES OF
 CHLORINE WITH ETHYLENE AND OTHER COMBUS-
 TIBLE GASES. 1966. 18p. 7 ill.
 Order Group 1-5 of SLA \$1.10

61-16248

L. Shilov, E. A.

61-16248

Trans. of Journal Otechnei Khimii (USSR) 1945, v. 15
 [no. 3] p. 138-142.

ORSCHEIDIS: *Chlorines, *Ethylenes, *Gases,
 *Oxides, Inflammable materials, Catalysis, Ignition,
 Analysis, Thermochemistry, Combustion.

187239

Inflammation of mixtures of chlorine with ethylene was
 studied in the presence of various volatile and non-
 volatile additions. Oxides of mercury, silver and lead
 proportionally reduce the inflammation temperature.
 Mixtures of ethylene and chlorine explode even at room
 temperature on mercurous and mercuric oxides, on
 (Chemistry-Physical, TT, v. 6, no. 10) (over)

Office of Technical Services

62-10854

JOURNAL OF GENERAL CHEMISTRY, 1945, VOL. 15,
NO. 3: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 8p. 6 refs.

Order from OTS or SLA \$1.10

62-10854

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 3, p. 152-159, 165-168, 252-258.

##Complete translations of p. 165-168 and 173-176 are
available from SLA at RT-1414 and RT-1008.

DESCRIPTORS: *Chemistry, *Abstracts, Molecular
isomerism, Methyl ethers, Hydroxides, Naphthalenes,
Quinones, Catalysts, Catalysis, Chemical reactions,
Nitrogen compounds, Oxides, Ethyl ethers, Reaction
kinetics, Styrenes, Polymerization, Rubber, Oxidation,
Propionic acids, Bromides, Esters, Nicotinic acid.

Contents:

Isomerization of dimethyl ether of 1,4-dihydro-7-maph-
(Chemistry), TT. v. 9, no. 9)

(over)

- I. Title: Action of N_2O_3 ...
- II. Title: Practical...
- III. Title: Some...

Office of Technical Services

61-18246

- I. Title: Contact conversion
 I. Plate, A. F.
 II. Title: Simultaneous...

Plat. A. F.
 REACTION OF CONTACT CONVERSIONS OF HY-
 DROCARBONS IN A VANADINE CATALYST. V.
 SIMULTANEOUS HYDROGENATION AND DEHYDRO-
 GENATION OF CYCLOHEXENE (CYCLOHEXENE
 AND CYCLOHEXENE) (Mekhanizm Kontaknykh
 Priblizheniy) (Voprosy Khim. Vant. Drevom
 Kharaktere). (Voprosy Khim. Vant. Drevom
 Order of the USSR of P. A. 51 12) 61-18245

Tran. of Zhurnal Khimicheskoi Khimii (USSR) 1945, v. 15
 (no. 5) p. 150-151

DESORPTION: Hydrocarbons, *Cyclohexene,
 *Cyclohexene, Hydrogenation, *Hydrogenation,
 Vanadium catalysts, Monocyclic compounds.

Investigation of the behavior of cyclohexene in the
 presence of vanadium trioxide on aluminum oxide as a
 catalyst reveals the diversity and complexity of the
 catalytic process, which should be taken into ac-
 (Chem. Eng. Organic, T. v. 6, no. 7) (over)

Office of Technical Services

Zhur Dzhich Khim XV, 724-8, 1945

Equilibrium in the Systems $\text{NH}_4\text{F}-\text{H}_2\text{O}$ and $\text{NH}_4\text{HF}_2-\text{H}_2\text{O}$.

V. S. Yatlov and E. M. Polynkov.

(Wilson Dan 2482)

The Action of Nitrogen Oxides on Unsaturated Ethers.
Con. II. Action of N_2O_3 on Ethyl-allyl Ether,
by H. Ya. Maslov, 7 pp.

RUSSEAN, ~~per~~, Zhur Obshch Khim, Vol XV, No 3,
1945, pp 165-168.

Sci Tr ~~Sci~~ Center
RT-1444

Scientific - Chemistry

18,902

Polymerization of Styrene in a High Frequency Field,
by N. V. Shorygina, E. I. Petrova, 6 pp
UNCLASSIFIED

RUSSIAN, Per, Zhar Obshch Khim, VolXV, No 3,
1965, pp 173-176

Sci Tr Center
RT-1008

Scientific - Chemistry

15353

Investigation of the Alkaloids of Trachelanthus
Korolkov, I., by G. P. Man'shikov, G. M. Borodina,
18 pp.

RUSSIAN, per, Zhuravskoi Khimi, Vol XV, No 3,
1945, pp 225-236.

Sci Tr Center RT-2502

USSR
Scientific - Chemistry

28,271

Nov 55
CTS/DEX

Nikitin, V. M.
EFFECT OF CADMIUM ON DEHYDRATION OF
ETHANOL OVER ALUMINA. [1961] 4p. 4 refs.
Order from OCS or SLA \$1.13
61-20126

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 273-276.

DESCRIPTORS: *Ethanol, Decomposition, *Cadmium
compounds, Nitrates, Chemical reactions, Dehy-
dration, *Aluminum compounds, Oxides, Dehydro-
genation, Catalysts.

Decomposition of ethanol over alumina with an ad-
mixture of cadmium nitrate was studied. Addition of 1
mole cadmium nitrate to 60 moles alumina causes con-
version of the latter from a dehydrating catalyst to a
dehydrogenating catalyst, and with a larger amount of
cadmium present the character of conversion of alco-
(Chemistry--Physical, TT, v. 7, no. 2) (over)

61-20126

I. Nikitin, V. M.

Office of Technical Services

62-10855

JOURNAL OF GENERAL CHEMISTRY, 1945, VOL. 15,
NO. 4/5: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. [1962] 5p. 14 refs.
Order from GTS or SLA \$1.10

62-10855

Abstract trans. of Zhurnal Obshchei Khimii (USSR)
1945, v. 15, no. 4/5, p. 332-340 and 343-366.

DESCRIPTORS: *Chemistry, *Abstracts, Bromides,
Phthalic acids, Imides, Molecular structure, Synthesis
(Chemistry), Hydrogenation, Molecular isomerism,
Benzenes, Butyl radicals, Calcium, Ammonium
radicals.

Contents:

Bromophthalimide, its structure and application in
organic syntheses, by N. I. Putukhin
Hydrogenation of isomers of butylbenzene with calcium-
ammonium, by S. I. Khromov and Z. A. Rumyantseva
(Chemistry, IT, v. 9, no. 9)

Office of Technical Services

Izv. Akad. Nauk, Vol XV, # 4/5, 341-52 (1945)

*"The Kinetics and Mechanism of the Thermal
Decomposition of Iso-Butane @ Low Pressures"*

By D.D. Stepanovich

AEC Translation # 209

2 June, 1946

Available @ Brookhaven

Polymerization of Arylvinyl Ethers, by ~~E.~~ P. Loshev,
O. Ia. Fedotova, Troitsyanskaya, E. B., 8 pp.

RUSSIAN, ~~Proc.~~ ~~Chem. USSR~~ ~~Acad. Sci. USSR~~, Vol. IV, No. 4/5,
1945, pp 353-357.

SIA 59-15838

Sci
Dec 59
Vol 2, No 5

103,590

Nametkin, S. S. and Abakumovskaya, L. N.
HYDROPOLYMERIZATION OF 3-METHYL-1-BUTENE BY 100 PER CENT SULFURIC ACID. [1961]
4p. 5 refs.

Order from OTS or SLA \$1.10

61-20129

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 358-361.

DESCRIPTORS: *Sulfuric acid, *Butenes, Polymers,
*Polymerization, *Hydrogenation, Hydrocarbons,
Ethylenes, Methyl radicals.

Hydropolymerization of 3-methyl-1-butene under the
action of 100% sulfuric acid was studied under different
conditions. Formation in this reaction of hydrogen-
ated polymers from dimers to hexamers, inclusive
was shown. When 100% sulfuric acid is used, the hy-
dropolymerization of 3-methyl-1-butene forms more
(Chemistry--Organic, TT, v. 7, no. 3) (over)

61-20129

I. Nametkin, S. S.
II. Abakumovskaya, L. N.

Office of Technical Services

Effect of Pinacoline on Magnesium Tertbutyl Chloride
Solution, by V. M. Tolstopyatov, I. V. Voroshilova,
18 pp.

RUSSIAN, no per, Zhur Obshch Khim., Vol XV, No 6,
1945, pp 555-573.

Sci Tr Center
RM-3501

58,149

Sci - Chemistry
Exp 56 CHB/lem

61-20143

I. Zhdanov, A. K.

Zhdanov, A. K.
INCREASE OF ENTROPY IN THE FORMATION OF
AZEOTROPIC MIXTURES, II. [1961] Sp. 7 refs.
Order from OTS or SLA \$1.10 61-20143

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 587-591.

DESCRIPTORS: *Entropy, *Mixtures, Boiling, Alcohols,
Heat of formation.

201427

Office of Technical Services

On the basis of data for thermal expansion, latent heats
of evaporation and heat capacity under constant pres-
sure formulas were derived for the determination of
the change of entropy accompanying formation of each
of the following azeotropic mixtures: (1) benzene-isop-
ranyl alcohol; (2) carbon disulfide-acetone; (3) carbon
disulfide-isopropyl alcohol; (4) carbon disulfide-ethyl
acetate. The numerical value of the change of entropy
(Chemistry--Organic, TT, v. 7, no. 8) (over)

Zinn, G. H. - Vol 15 (1985)
pp 603-7

Polarographic study of the stability of
the complex formed by iron-4 and
tartaric acid, by V. A. Tarafan

from the AEC List dated 2/2/50

Catalytic Hydrogenation. I. Kinetic Equation of
Hydrogenation and Dehydrogenation Over Nickel
Catalyst, by A. A. Balandin, 25 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol. XV, No 7/8,
1945, pp 608-618.

Sci Trans Center
RT-258J

Scientific - Chemistry
OTS 75/Dec 55

29,219

61-20141

Tsukervanik, L. P.
 CONDENSATION OF ALCOHOLS WITH AROMATIC
 COMPOUNDS IN THE PRESENCE OF ALUMINUM
 CHLORIDE XL MECHANISM OF ALKYLATION OF
 AROMATIC HYDROCARBONS WITH ALCOHOLS.
 [1961] 4p. 7 refs.
 Order from OTS or SLA \$1.10

61-20141

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
 v. 15, p. 635-638.

DESCRIPTORS: *Alcohols, *Condensation reactions,
 Aluminum compounds, *Chlorides, *Alkyl radicals,
 *Hydrocarbons.

Decomposition of products of interaction of alcohols
 with aluminum chloride was investigated at tempera-
 tures above 1100°. Contrary to the data of Norris and
 Sturgis (J. Am. Chem. Soc. 61: 1413, 1939), high
 (Chemistry-Organic, TT, v. 7, no. 9) (over)

Tsukervanik, L. P.
 I. Title: Mechanism. . .

Office of Technical Services

Pigulevskii, G. V. and Rysskal'chuk, A. T.
INVESTIGATION OF TURPENTINE FROM PINUS
SYLVESTRIS BY THE RAMAN SPECTRA METHOD.
[1962] 6p. 15 refs.
Order from OTS at SLA \$1.10

62-10864

I. Pigulevskii, G. V.
II. Rysskal'chuk, A. T.

62-10864

[Condensed] transl. of Zhurnal Obshchei Khimii (USSR)
1948, v. 18, no. 7/8, p. 678-683.

DESCRIPTORS: *Turpentine, *Raman spectroscopy,
Fractionation, Spectrographic analysis, Pine.

(Chemistry--Organic, TT, v. 7, no. 11)

Office of Technical Services

Petrov, A. A.
ORDER OF ADDITION OF HYDROGEN HALIDES
TO ORGANIC OXIDES IN AQUEOUS MEDIUM.
[1961] 3p. 12 refs.

Order from DTIC or SLA \$1.10

62-10865

[Condensed] trans. of Zhurnal Obshchei Khimii
(USSR) 1945, v. 15, no. 78, p. 695-698.

DESCRIPTIONS: *Organic compounds, *Oxides,
*Hydrogen compounds, *Halides, Addition reactions,
Alkenes, Propenes, Alcohols, Chlorides, Hypo-
chlorous acid, Acids, Water, Ethers.

(Chemistry--Physical, 17, v. 7, no. 11)

62-10865

1. Petrov, A.

Office of Technical Services

61-20142

Tsukervanik, I. P.
ALKYLATION OF AROMATIC COMPOUNDS IN THE
PRESENCE OF PHOSPHORIC ACID. I. CONDENSE-
TION OF ALCOHOLS WITH AROMATIC HYDRO-
CARBONS AND WITH HALOGEN DERIVATIVES.

[1961] pp. 14 refs.

Order from OTS or SLA \$1.10

61-20142

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 699-700.

DESCRIPTORS: *Condensation reactions, *Alcohols,
*Hydrocarbons, *Halogens, Phosphoric acids, Alkyl
radicals, Chemical reactions, Reagents.

201426

It was established that phosphoric acid can be used for
alkylation of aromatic hydrocarbons and aromatic
halogen derivatives with alcohols. Under optimal re-
action conditions yields of up to 80-90 per cent theor.
(Chemistry--Physical, TI, v. 7, no. 3) (over)

Office of Technical Services

Yatlov, V. S. and Polyakova, E. M.
EQUILIBRIUM IN THE SYSTEMS $\text{NH}_4\text{F} \cdot \text{H}_2\text{O}$ AND
 $\text{NH}_4\text{HF}_2 \cdot \text{H}_2\text{O}$. [1963] (9)p. 3 refs.

Order from CTS or S.A. \$1.10

63-16069

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 124-128.

DESCRIPTORS: *Ammonium compounds, *Fluorides,
*Water, Phase studies, Thermodynamics, Physical
properties.

The equilibrium between the liquid and the solid phase
in the systems $\text{NH}_4\text{F} \cdot \text{H}_2\text{O}$ and $\text{NH}_4\text{HF}_2 \cdot \text{H}_2\text{O}$ was
studied. It has been found that NH_4F forms at -16.8°
a hydrate having the composition $\text{NH}_4\text{F} \cdot \text{H}_2\text{O}$. In the
system $\text{NH}_4\text{HF}_2 \cdot \text{H}_2\text{O}$ the existence of only two solid
phases has been observed of the anhydrous
(Chemistry - Physical, IT, v. 10, no. 7) (over)

63-16069

I. Yatlov, V. S.
II. Polyakova, E. M.

Office of Technical Services

Nikolaeva, A. F., Itevskii, V. M. and Frost, A. V.
 CATALYTIC ACTION OF [ACTIVE] ALUMINOSILICATES. IV. CONVERSION OF CYCLOHEXENE
 OVER ACTIVATED CLAY. [1961] 4p. 7 refs.
 Order from DTIC of SLA \$1.10

61-20146

I. Nikolaeva, A. F.
 II. Itevskii, V. M.
 III. Frost, A. V.
 IV. Title: Conversion...

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
 p. 796-798.

DESCRIPTORS: Aluminum compounds, Silicates, Catalysis, *Cyclohexenes, *Clays, Chemical reactions, Hydrocarbons, Catalysis.

It was established that the action of aluminosilicates on cyclohexene differs in its mechanism from the action of metals, which bring about an irreversible catalytic conversion, as described by N.D. Zelinskii. The absence of benzene in the light fractions of the (Chemistry: Organic, TT, v. 7, no. 2) (over)

Office of Technical Services

Petrov, A. D., Kravov, K. M., and Khrenov, I. M.
SYNTHESIS AND PROPERTIES OF ETHYLPROPYL-
CYCLOHEXYLMETHANE AND ISOPROPYLHEXYL-
CYCLOHEXYLMETHANE. [1961] 3p. 7 refs.
Order from OTS or SLA \$1.10

61-20147

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 799-801.

DESCRIPTORS: Synthesis, *Methane, Antiknock,
Octanes, Petroleum, Hydrogenation, Ethylenes,
Cyclohexanes, Molecular structure, Alcohols, *Pisels,
*Aviation fuels, Ethyl radicals, Propyl radicals,
Hexyl radicals.

Ethylpropylcyclohexylmethane and isopropylhexyl-
cyclohexylmethane, not previously reported in the
literature, were synthesized. The pour points of these
hydrocarbons and their antiknock properties expressed
in cetane numbers were determined. (Author)
(Materials-Fuels, T-1, v. 7, no. 1)

61-20147

I. Petrov, A. D.
II. Kravov, K. M.
III. Khrenov, I. M.

Office of Technical Services

61-20148

Timhovtseva, V. and Tsukervanik, I.
ALKYLATION OF AROMATIC COMPOUNDS IN THE
PRESENCE OF PHOSPHORIC ACID. II. ALKYLATION
OF PHENOL AND ANISOLE BY ALCOHOLS. [1961]

I. Timhovtseva, V.
II. Tsukervanik, I.
III. Title: Alkylation ...

6p, 3 refs.

Order from OTS or SLA \$1.10

61-20148

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
3:15, p. 820-821.

DISCUSSIONS: *Alcohols, *Condensation reactions,
*Hydrocarbons, *Phenols.

Phenol and anisole are alkylated by alcohols in the
presence of phosphoric acid, forming alkylated de-
rivatives in yields of about 80 per cent. In some cases
up to 95 per cent. The alkyl phenols or alkyl
anisoles formed are predominantly p-isomers. In
some cases o-isomers are formed in small amounts.
(Chemistry, Organic, TT, v. 7, no. 5) (over)

Office of Technical Services

Zhdanov, A. K.
HEAT CAPACITIES OF SOME PURE LIQUIDS AND
AZEOTROPIC MIXTURES. [1961] [7] p. 3 refs.
Order from OTS or SLA \$1.10 61-20149

Trans. of Zhurnal Obshchei Khimii (USSR) 1945,
v. 15, p. 895-901.

DESCRIPTORS: *Alcohols, *Acetates, *Ethyl
radicals, *Carbon compounds, *Sulfides, Liquids,
Mixtures, Thermodynamics, Tables.

Heat capacities under constant pressure were deter-
mined of isopropyl alcohol, isobutyl alcohol, ethyl
acetate, carbon disulfide and the following azeotropic
mixtures: (1) benzene-isopropyl alcohol, (2) benzene-
isobutyl alcohol, (3) carbon disulfide-acetone, (4)
carbon disulfide-methyl ethyl ketone, (5) carbon
disulfide-isopropyl alcohol, (6) carbon disulfide-
(Physics--Thermodynamics, TT, v. 7, no. 8) (over)

61-20149

1. Title: Azeotropes
1. Zhdanov, A. K.

201428

Office of Technical Services

Hydrochemical Investigation of the Systems Arsenic
Chloride-Chlorides of Other Metals, by A. P.
Vodkova, Zh. A. Pyatkov, 10 pp.

RUSSIAN, per, Zhur Gosh Khim, Vol. 37, No. 11-12,
1945, pp. 903-906, 907-908, 909-910, 911-912, 913-914, 915-916, 917-918, 919-920, 921-922, 923-924, 925-926, 927-928, 929-930, 931-932, 933-934, 935-936, 937-938, 939-940, 941-942, 943-944, 945-946, 947-948, 949-950, 951-952, 953-954, 955-956, 957-958, 959-960, 961-962, 963-964, 965-966, 967-968, 969-970, 971-972, 973-974, 975-976, 977-978, 979-980, 981-982, 983-984, 985-986, 987-988, 989-990, 991-992, 993-994, 995-996, 997-998, 999-1000, 1001-1002, 1003-1004, 1005-1006, 1007-1008, 1009-1010, 1011-1012, 1013-1014, 1015-1016, 1017-1018, 1019-1020, 1021-1022, 1023-1024, 1025-1026, 1027-1028, 1029-1030, 1031-1032, 1033-1034, 1035-1036, 1037-1038, 1039-1040, 1041-1042, 1043-1044, 1045-1046, 1047-1048, 1049-1050, 1051-1052, 1053-1054, 1055-1056, 1057-1058, 1059-1060, 1061-1062, 1063-1064, 1065-1066, 1067-1068, 1069-1070, 1071-1072, 1073-1074, 1075-1076, 1077-1078, 1079-1080, 1081-1082, 1083-1084, 1085-1086, 1087-1088, 1089-1090, 1091-1092, 1093-1094, 1095-1096, 1097-1098, 1099-1100, 1101-1102, 1103-1104, 1105-1106, 1107-1108, 1109-1110, 1111-1112, 1113-1114, 1115-1116, 1117-1118, 1119-1120, 1121-1122, 1123-1124, 1125-1126, 1127-1128, 1129-1130, 1131-1132, 1133-1134, 1135-1136, 1137-1138, 1139-1140, 1141-1142, 1143-1144, 1145-1146, 1147-1148, 1149-1150, 1151-1152, 1153-1154, 1155-1156, 1157-1158, 1159-1160, 1161-1162, 1163-1164, 1165-1166, 1167-1168, 1169-1170, 1171-1172, 1173-1174, 1175-1176, 1177-1178, 1179-1180, 1181-1182, 1183-1184, 1185-1186, 1187-1188, 1189-1190, 1191-1192, 1193-1194, 1195-1196, 1197-1198, 1199-1200, 1201-1202, 1203-1204, 1205-1206, 1207-1208, 1209-1210, 1211-1212, 1213-1214, 1215-1216, 1217-1218, 1219-1220, 1221-1222, 1223-1224, 1225-1226, 1227-1228, 1229-1230, 1231-1232, 1233-1234, 1235-1236, 1237-1238, 1239-1240, 1241-1242, 1243-1244, 1245-1246, 1247-1248, 1249-1250, 1251-1252, 1253-1254, 1255-1256, 1257-1258, 1259-1260, 1261-1262, 1263-1264, 1265-1266, 1267-1268, 1269-1270, 1271-1272, 1273-1274, 1275-1276, 1277-1278, 1279-1280, 1281-1282, 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2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 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3103-3104, 3105-3106, 3107-3108, 3109-3110, 3111-3112, 3113-3114, 3115-3116, 3117-3118, 3119-3120, 3121-3122, 3123-3124, 3125-3126, 3127-3128, 31

Korshak, V. V. and Zamyatina, Y. A.
POLYVINYL DERIVATIVES. II. POLYVINYL
BUTYL ETHER. [1961] 4p. 11 refs.
Order from O/S or SLA \$1.10

61-20112

Condensed trans. of Zhurnal Obshchei Khimii
(USSR) 1945, v. 15, p. 947-951.

DESCRIPTORS: *Vinyl radicals, *Polymers, *Butyl
radicals, *Ethers, Polymerization, C.r.a.vets.

The polymerization was studied of normal butyl
vinyl ether in the presence or absence of sulfur
dioxide, as influenced by the following catalysts:
iodine, stannous chloride, stannic chloride, alumi-
num chloride, ferric chloride and boron fluoride.
The reaction temperature was varied from -55 to
60°. The polymers obtained were viscous, very
tacky liquids, insoluble in alcohol or water, but
(Chemistry-Organic, TT, v. 7, no. 8) (over)

61-20112

I. Korshak, V. V.
II. Zamyatina, Y. A.
III. Title: Polyvinyl Butyl. . .

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Office of Technical Services

Petrov, A. A. and Sopov, N. P.
RESEARCH OF CONJUGATED SYSTEMS. XXVI.
SYNTHESIS AND PROPERTIES OF 1-CHLORO-1,
3-BUTADIENE. (1961) 8p. 21 refs.
Order from OTS or SLA \$1.10

61-20150

Trans. of Zhurnal Obshchei Khimii (USSR) 1945, v. 15,
p. 981-985

DESCRIPTORS: *Chloropropene, Synthesis, *Alkoxy
radicals, Diene, *Bromine, *Halogen, *Anhydride,
*Sodium compound, *Hydroxide, *Potassium com-
pounds, Chemical reactions, Butadienes.

1-Chloro-1, 3-butadiene was prepared in pure state
for the first time by the action of caustic potash on
1,4-dichloro-2-butene. The reaction of 1-chloro-1,
3-butadiene to bromine, alkyl hypiodites and maleic
anhydride and its tendency toward spontaneous and
(Chemistry--Organic. TT, v. 7, no. 8) (over)

61-20150

I. Petrov, A. A.
II. Sopov, N. P.
III. Title: Synthesis ...

201429

Office of Technical Services

Esafov, V. I.
HALOGENATION OF UNSATURATED HYDROCAR-
BONS, TF. (1961) 2p. 12 refs.
Order from OTS or SLA \$1.10

61-20152

V. I. Esafov, V. I.

61-20152

Trans. of Zhurnal Khimicheskoi Khimii (USSR) 1945,
v. 15, pp. 1001-1006.

DESCRIPTORS: "Halogenation, "Hydrocarbons,
Gasoline, (Chemical) reactions, Chemical bonds,
Ethylene, Processing.

The McIlhenny method for determination of iodine numbers is recommended for detection of groups with quaternary carbon atoms at the double bonds of olefinic and diene hydrocarbons. The content of unsaturated hydrocarbons with quaternary carbon atoms at the double bonds in gasolines produced by liquid phase cracking increases with rise of the boiling range of the gasoline fraction. An interpretation is offered of the (Chemistry-Organic, TF, v. 7, no. 7) (over)

Office of Technical Services

Investigation of the Alkaloids of Girgensohnia
appositiflora (Pall.) Fenzl. (Fam. Chenopodiaceae),
by E. K. Murashevskiy, N. L. Stepanov.
RUSSIAN, ibid., Zh Obshch Khim, Vol 16, No 1, 1946,
pp 141-144.
ATS RJ-5066

Sci-Chem
July 69

385,477

Biphenyls: Hydrates of Aldehydes, Ketones, and
Quinones, by M. S. Khoshdel, M. M. Chuman.
UNCLASSIFIED

RUSSIAN, per. Zhur Obshch Khim, Vol XVI, No 3, 1946.

Navy Tr 1899/70-230-T12

Sci - Chemistry
Nov 58

075 PB 011 454T

75,974

Zhur Oshch Khim XVI, 27-32 (1946)

Equilibrium in the System AlF_3-H_2O .

V. S. Yutlov and E. N. Pinayevskaya

(Wilson Dam 2481)

Ivanov, K. I., Sabinova, V. K., and Mikhailova, E. G.
 PEROXIDE COMPOUNDS OF ISOPROPYL ETHER.
 I. PHOTOOXIDATION OF ISOPROPYL ETHER AND
 THE CHARACTER OF PEROXIDES FORMED. [1961]
 Sp. 18 refs.

Order from OTS or SLA \$1.10

61-20177

61-20177

I. Ivanov, K. I.
 II. Sabinova, V. K.
 III. Mikhailova, E. G.
 IV. Title: Photooxidation...

Trans. of Zhurnal Khimicheskoi Khimii (USSR) 1946, v. 16,
 p. 65-70.

DESCRIPTORS: *Propyl ethers, *Peroxides, Hydrogen
 compounds, Oxidation, Boiling, Oxides, Ultraviolet
 radiation, Light, Photochemistry, Photochemical re-
 actions.

The action of ultraviolet light accelerates formation of
 peroxides in autooxidation of isopropyl ether. Autoxi-
 dation of isopropyl ether forms three types of per-
 oxides: hydrogen peroxide, a very small amount of a
 (Chemistry - Physics), 17, v. 7, p. 2) (over)

Office of Technical Services

Vvedenskii, A. A., Dobronravov, R. K., and
 Frost, A. V.
 KINETICS AND MECHANISM OF CATALYTIC
 HYDROGENATION OF HYDROCARBONS, II [1961]
 6p. 7 refs.

Order from OTS or SLA \$1.10

61-20161

Trans. of Zhurnal Obshchei Khimii (USSR) 1966,
 v. 36, p. 71-76.

DESCRIPTORS: *Hydrocarbons, Hydrogenation,
 Catalysis, *Benzenes, *Cyclohexanes, *Reaction
 kinetics

In hydrogenation of benzene over palladium black at
 240° and atmospheric pressure the rate of hydro-
 genation is independent of the partial pressure of
 benzene within the limits of 0.1-0.45 atm. Hydrogen-
 ation of benzene under the above conditions is re-
 (Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20161

I. Vvedenskii, A. A.
 II. Dobronravov, R. K.
 III. Frost, A. V.

201430

Office of Technical Services

Polymerization of Simple Methyl Vinyl
Ether, by I. P. Losev, E. B. Trostyanskaya,
14pp.

RUSSIAN, per, Zhurnal Obshchei Khimii,
Vol 17, 1947, No 1, pp 122-129.

CFSTI TT-64-10576

383,191

Sci - Chemistry
Apr 67

Zhur Otschek Khim XVI, 171-8, (1946)

Mutual Solubility in the System $(\text{NH}_4)_2\text{HPO}_4 - (\text{NH}_4)_2\text{SO}_4 - \text{H}_2\text{O}$.

K. S. Chernova and E. V. Korsh (Lab of Inorganic Chem,
Voronezh State Pedagogical Inst)

(Wilson Dam 2478)

61-20175 I. Goria, Yu. A. II. Title: Formation... 61-20176 I. Goria, Yu. A. II. Title: Formation... 61-20177 I. Goria, Yu. A. II. Title: Formation...	61-20175 I. Goria, Yu. A. II. Title: Formation... 61-20176 I. Goria, Yu. A. II. Title: Formation... 61-20177 I. Goria, Yu. A. II. Title: Formation...
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61-20175

I. Goria, Yu. A.

II. Title: Formation...

61-20176

I. Goria, Yu. A.

II. Title: Formation...

61-20177

I. Goria, Yu. A.

II. Title: Formation...

Office of Technical Services

Investigation of Hydrolytic Equilibria in Solutions
of Sodium Hexafluorosilicate at 11°, by (O. F.)
Ruks, 17 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol. XVI, 1946,
pp 331-340.

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Scientific - Chemistry
CTB/DEX

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To the Problem of the Transformations of Diazo
Compounds. 1. The Reactions of p-Nitro-
Diazobenzene and the Theory of the Structure of
Diazobenzene, by B. A. Porai-Koshits,
I. V. Grachev, UNCL

RUSSIAN, per, Zhur Obshch Khim, 1946,
pp 571-582. Vol XVI, No 4/5,

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Apr 50

85, 881